English

GigaX1024

Quick Installation Guide

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English

Introduction

The GigaX1024 rack mountable switch provides non-blocking, wire-speed performance to meet your intensive network needs. This switch comes with 24 Fast Ethernet ports with auto-sensing and auto MDI/MDIX capabilities. With easy connectivity, flow control, and QoS, GigaX1024 is guaranteed to enhance your network performance and productivity.

Features

- 24 10/100 Mbps RJ-45 ports
- Up to 200Mbps for all ports in full-duplex mode
- Plug and play – auto MDI/MDIX, and auto-sensing for speed and duplex mode on all ports
- Flow control schemes (802.3x in full-duplex mode) to support zero loss under temporary network congestion
- Head of Line (HOL) blocking preventions
- Recognizes 802.1p/TOS/DS to meet QoS requirements
- 8K MAC address learning and aging for concurrent connections to 8K nodes
- Easy to read LEDs provide quick indication of link status, speed, duplex mode and collision
- Fan-less design for quiet operation
- Surface or rack mount placement options

Package contents

Before installing the GigaX1024 switch, check your package for the following items.

- GigaX1024 switch
- Power cable
- Quick installation guide
- Mounting kit (2 brackets and 6 screws)

NOTE. Contact your retailer if any of the items is damaged or missing.

Technical specifications

Physical Dimensions

43.5mm (H) X 444 mm (W) X 200mm (D)

Environmental Ranges

Operating temperature	-10ºC ~ 50ºC (14ºF to 122ºF)
Storage temperature	-40ºC ~ 70ºC (-40ºF to 158ºF)
Operating humidity	0 to 90%
Storage humidity	0 to 90%
Operating altitude	up to 15,000 ft (4,500m)
Storage altitude	up to 40,000 ft (12,000m)

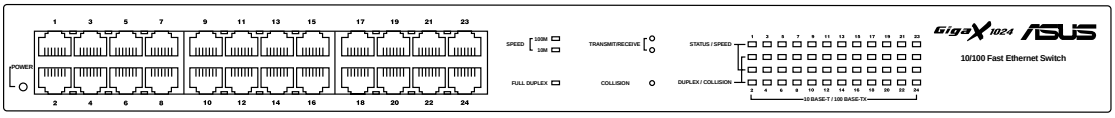
Power

Input	100V ~ 240V AC/50-60Hz
Power Consumption	12 Watts

Certification

FCC Class A, CE, CCC

Front panel



Label/LED	Color	Status	Indication
POWER	Green	On Off	The switch is on. The switch is off.
1 – 24			Identifies the port number.
SPEED	Green Amber	On On	100Mbps 10Mbps
STATUS/SPEED	Green Amber	On On Blinking Off	100Mbps 10Mbps Receiving or transmitting data packets The link is down.
DUPLEX/ COLLISION	Amber	On Blinking Off	Switch is operating in full-duplex mode. Switch is operating in half-duplex mode and collisions are occurring. Switch is operating in half-duplex mode and no collisions are occuring.

Rear panel

Power connector

Placement options

Placing the switch on a flat surface

Place the GigaX1024 on a flat, stable surface. Make sure the location meets the operating environment specification. See page 3 for details.

NOTE. The length of the UTP Category 5 cable length should not exceed 100 meters (328 feet).

Mounting the switch on a rack

You may also mount the GigaX1024 switch on a rack with the supplied mounting brackets and screws.

To mount the switch on a rack:

1. Locate three screw holes on both sides of the switch.
2. Align the mounting brackets with the switch screw holes.
3. Secure the mounting brackets with three screws on both sides of the switch.
4. Place the switch in a 19-inch rack, then secure it with two rack mount screws.

NOTE. The rack mount screws are not supplied.

English

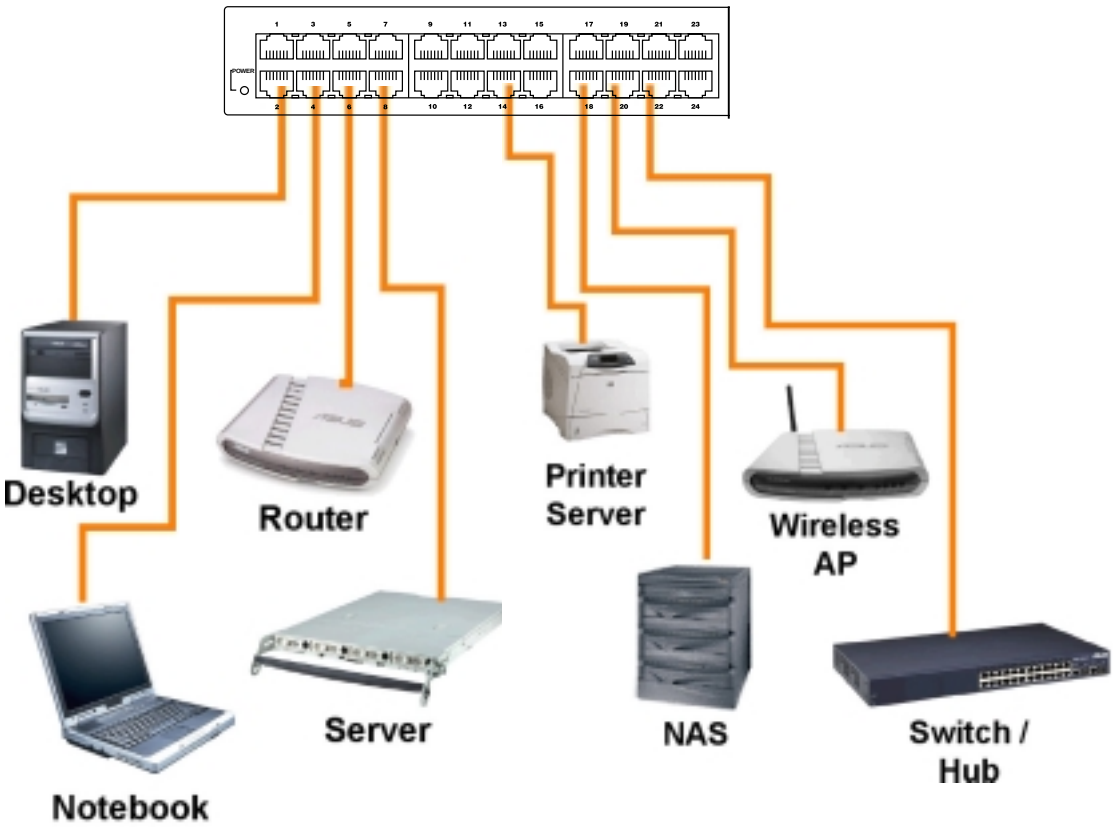
Connecting network devices

To connect network devices to the GigaX1024 switch.

1. Connect one end of the Ethernet cable to an Ethernet port on the switch front panel. Connect the other end to the Ethernet port of the network device. Repeat this step to connect additional network devices.

NOTES

- Use Category 5 Ethernet straight-through cables to ensure proper connections between the switch and other network devices.
- You may use the switch Ethernet ports as an uplink to another switch, hub, bridge or repeater. The switch is capable of detecting and adjusting either cross-over or straight-through cables.



2. Plug one end of the power cable to the power connector on the switch rear panel, then plug the other end to an electrical outlet.
3. The Power LED and LED indicators for active Ethernet ports light up to indicate that the device is on and in use. Refer to the front panel Label/LED table in page 4 for LED indications.

Troubleshooting

This troubleshooting guide provides answers to some common problems which you may encounter while installing and/or using the ASUS GigaX1024 switch. These problems requires simple troubleshooting that you can perform by yourself. Contact the ASUS Technical Support if you encounter problems not mentioned in this section.

Problem	Action
The POWER LED does not light up.	Check if the power cable is properly connected to the switch and to an electrical outlet with a correct voltage output.
The STATUS/SPEED LED does not light up even after an Ethernet cable is connected.	• Check if the Ethernet cable is properly connected to the switch and to the network device. • Make sure that the switch and your network device are powered on. • Check if the Ethernet cable is sufficient to your network requirements. Make sure you use Category 5 cables. 10Mbit/sec cables may work with lower quality cables.
The COLLISION/DUPLEX LED keeps blinking.	Collisions are occurring and are reducing the network performance. To solve this problem: • Try replacing your UTP Category 5 cable with a new one. • Check the cable length. The cable length between the switch and the network device must not exceed 100m (328 feet). **NOTE.** Some old network devices may experience this problem.

Glossary

10BASE-T	10 Mbps Ethernet over twisted pair cable (Category 3).
100BASE-T	100 Mbps Ethernet over twisted pair cable (Category 5)
1000BASE-T	1000 Mbps Ethernet over twisted pair cable (Category 5)
Auto MDI/MDIX	Allows network connections using either straight or cross cable.
Ethernet	The most commonly installed computer network technology, usually using twisted pair wiring. Ethernet data rates are 10 Mbps, 100 Mbps, and 1000 Mbps.
Mbps	Abbreviation for Megabits per second, or one million bits per second. Network data rates are often expressed in Mbps.
network	A group of computers that are connected together, allowing them to communicate with each other and share resources, such as software, files, etc. A network can be small, such as a *LAN*, or very large, such as the *Internet*.